

Title (en)

ALKALINE CELL WITH IMPROVED RELIABILITY AND DISCHARGE PERFORMANCE

Title (de)

ALKALISCHE ZELLE MIT VERBESSERTER ZUVERLÄSSIGKEIT UND ENTLADUNGSLEISTUNG

Title (fr)

PILE ALCALINE AYANT UNE MEILLEURE FIABILITÉ ET DES PERFORMANCES DE DÉCHARGE AMÉLIORÉES

Publication

**EP 3245681 A1 20171122 (EN)**

Application

**EP 16737663 A 20160111**

Priority

- US 201562104265 P 20150116
- US 2016012813 W 20160111

Abstract (en)

[origin: WO2016115016A1] A negative electrode for an alkaline battery cell which includes zinc-based particles, wherein less than 20% of the zinc-based particles, by weight relative to the total zinc in the electrode, have a particle size of greater than about 150 micrometers, is provided. An alkaline electrochemical cell that includes the negative electrode and a method for reducing the gassing of the electrochemical cell is also provided.

IPC 8 full level

**H01M 4/24** (2006.01); **B22F 1/052** (2022.01); **B22F 1/06** (2022.01); **H01M 2/12** (2006.01); **H01M 4/06** (2006.01); **H01M 4/38** (2006.01); **H01M 6/02** (2006.01); **H01M 6/22** (2006.01)

CPC (source: CN EP US)

**B22F 1/052** (2022.01 - CN EP US); **B22F 1/06** (2022.01 - CN EP US); **H01M 4/12** (2013.01 - EP US); **H01M 4/244** (2013.01 - CN EP US); **H01M 4/42** (2013.01 - CN EP US); **H01M 4/62** (2013.01 - CN EP US); **H01M 4/628** (2013.01 - CN EP US); **H01M 6/5072** (2013.01 - EP US); **H01M 10/24** (2013.01 - EP US); **H01M 6/04** (2013.01 - EP US); **H01M 10/24** (2013.01 - CN); **H01M 2004/027** (2013.01 - CN); **Y02E 60/10** (2013.01 - EP); **Y02P 70/50** (2015.11 - EP)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**WO 2016115016 A1 20160721**; AU 2016206976 A1 20170817; AU 2016206976 B2 20191219; BR 112017015083 A2 20180619; CN 107438915 A 20171205; CN 107438915 B 20210309; EP 3245681 A1 20171122; EP 3245681 A4 20180711; EP 3245681 B1 20201014; JP 2018506150 A 20180301; JP 2020198308 A 20201210; JP 7090668 B2 20220624; JP 7093633 B2 20220630; US 10446832 B2 20191015; US 2018013133 A1 20180111

DOCDB simple family (application)

**US 2016012813 W 20160111**; AU 2016206976 A 20160111; BR 112017015083 A 20160111; CN 201680015957 A 20160111; EP 16737663 A 20160111; JP 2017537280 A 20160111; JP 2020133654 A 20200806; US 201615543928 A 20160111